

Ferrite cores — Dimensions —

Part 9: Planar cores

The European Standard EN 62317-9:2006, incorporating amendment A1:2007, has the status of a British Standard

ICS 29.100.10

National foreword

This British Standard was published by BSI. It is the UK implementation of EN 62317-9:2006, incorporating amendment A1:2007. It is identical with IEC 62317-9:2006, incorporating amendment 1:2007. It supersedes BS EN 61860:2001 which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** **A1**. Tags indicating changes to IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment 1 is indicated by **A1** **A1**.

The UK participation in its preparation was entrusted to Technical Committee EPL/51, Transformers, inductors, magnetic components and ferrite materials.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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English version

**Ferrite cores -
Dimensions
Part 9: Planar cores
(IEC 62317-9:2006)**

Noyaux ferrites -
Dimensions
Partie 9: Noyaux planaires
(CEI 62317-9:2006)

Ferritkerne -
Maße
Teil 9: Planarkerne
(IEC 62317-9:2006)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in two official versions (English and German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 51/849/FDIS, future edition 1 of IEC 62317-9, prepared by IEC TC 51, Magnetic components and ferrite materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62317-9 on 2006-07-01.

This European Standard supersedes EN 61860:2000.

This European Standard includes the following significant changes and additions with respect to EN 61860:2000:

- a) addition of the planar EL family of cores;
- b) addition of the low-profile ER family of cores;
- c) the low-profile RM-family defined in EN 61860:2000 has been moved to EN 62317-4 for RM-cores and associated parts.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2007-04-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2009-07-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62317-9:2006 was approved by CENELEC as a European Standard without any modification.

Foreword to amendment A1

The text of document 51/866/CDV, future amendment 1 to IEC 62317-9:2006, prepared by IEC TC 51, Magnetic components and ferrite materials, was submitted to the IEC-CENELEC Parallel Unique Acceptance Procedure and was approved by CENELEC as amendment A1 to EN 62317-9:2006 on 2007-03-01.

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- latest date by which the amendment has to be
implemented at national level by publication of
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- latest date by which the national standards conflicting
with the amendment have to be withdrawn (dow) 2010-03-01

Endorsement notice

The text of amendment 1:2007 to the International Standard IEC 62317-9:2006 was approved by CENELEC as an amendment to the European Standard without any modification.

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INTRODUCTION

Nowadays, d.c.-d.c. converter power supplies increasingly employ transformers and chokes the windings of which are made of multi-layer printed circuit board or the windings are constructed in the motherboard, rather than the transformers wound by conventional copper wires. This part of IEC 62317 specifies the optimum shapes and dimensions of cores for SMD (Surface Mounted Device) and of cores for which the windings are constructed in the motherboard. The motherboard has slots cut out to accept the ferrite cores. This is called the total integration in a multi-layer motherboard. The core shape specified in this part of IEC 62317 satisfies the demand for lower profile as well as for smaller floor space.